Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-149 (cancelled).

150 (previously presented): A prosthetic cardiac valve assembly comprising:

a) a replacement valve comprising:

a plurality of leaflets configured to permit blood to selectively flow therethrough;

and

a plurality of commissure points from which the replacement valve is suspended;

 b) a valve support connected to the replacement valve and configured to be collarsible for trans luminal delivery.

said valve support having an axial length sufficient to extend, when implanted,

from a position of a native annulus, past the replacement valve, past the commissure points, and past the patient's coronary ostia, and into an ascending aorta:

wherein outer circumference of the valve support varies along at least some portions of the axial length;

wherein the valve support further comprises:

a first section terminating in a first end, said first end comprising an outer circumference having a first diameter, said first section configured to engage the native annulus; and

a second section terminating in a second end, said second end comprising an outer circumference having a second diameter, said second section configured to extend past the coronary ostia and into the ascending aorta,

wherein the second circumference is greater than the first circumference.

151 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein said first section comprises a plurality of intersecting members forming a plurality of cells, said cells having a first cross-sectional size and arranged substantially uniformly around a periphery of the valve support;

wherein the second section comprises a plurality of intersecting members forming a plurality of cells, said cells having a second cross-sectional size and arranged substantially uniformly around a periphery of the valve support; and

wherein the second cross-sectional size is greater than the first cross-sectional size

- 152 (previously presented): The prosthetic cardiac valve assembly of claim 151, wherein the cells at the first and second sections comprise a diamond shape.
- 153 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein the valve support is self-expanding.
- 154 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein the valve support comprises a plurality of wires.
- 155 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein the valve support comprises a shape memory material.
- 156 (previously presented): The prosthetic cardiac valve assembly of claim 155, wherein the shape memory material comprises Nitinol.
- 157 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein the replacement valve is secured to the valve support using at least one suture.
- 158 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein the replacement valve comprises at least three leaflets.
- 159 (previously presented): The prosthetic cardiac valve assembly of claim 150, wherein at least a portion of the valve support is configured to apply a radial expansion force up to a predetermined diameter.

160 (previously presented): A prosthetic cardiac valve assembly comprising: a replacement valve comprising a plurality of leaflets and a plurality of commissure points from which the replacement valve is generally suspended; and

a valve support having a proximal portion and a distal portion, said valve support connected to the replacement valve and configured to be collapsible for trans luminal delivery;

wherein the valve support is configured to extend, when implanted into a patient, from a native annulus at the proximal portion to an ascending aorta at the distal portion, past a location of the patient's coronary ostia;

wherein an outer shape of the valve support varies along an axial length of said valve support such that a cross-sectional dimension of the distal portion is generally larger than a cross-sectional dimension of the proximal portion;

wherein the valve support comprises a plurality of intersecting members forming a plurality of cells, said cells being arranged substantially uniformly around a periphery of the valve support; and

wherein the plurality of cells located along the distal portion of the valve support have a larger cross-sectional size than the plurality of cells located along the proximal portion of the valve support.

161 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the valve support comprises a proximal end and a distal end, a cross-sectional dimension of said distal end being larger than a cross-sectional dimension of said proximal end.

162 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the plurality of cells at the proximal and distal portions comprise a diamond shape.

163 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the valve support is self-expanding.

164 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the valve support comprises a plurality of wires.

165 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the valve support comprises a shape memory material.

166 (previously presented): The prosthetic cardiac valve assembly of claim 165, wherein the shape memory material comprises Nitinol.

167 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the replacement valve is secured to the valve support using at least one suture.

168 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein the replacement valve comprises at least three leaflets.

169 (previously presented): The prosthetic cardiac valve assembly of claim 160, wherein at least a portion of the valve support is configured to apply a radial expansion force up to a predetermined diameter.

170 (currently amended): A prosthetic cardiac valve comprising:

a) a replacement valve comprising:

and

a plurality of leaflets configured to permit blood to selectively flow therethrough; and

a plurality of commissure points from which the replacement valve is suspended;

 b) a valve support connected to the replacement valve and configured to be collapsible for transluminal delivery.

wherein, when the valve support is implanted in a patient and the replacement valve is positioned in a native aortic valve annulus, said valve support is sized and shaped to extend from a position of the native annulus, past the replacement valve, the commissure points, and the patient's coronary ostia, and into an ascending aorta;

wherein outer circumference of the valve support varies along at least some portions of the axial length;

wherein the valve support further comprises:[[;]]

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a first section terminating in a first end, said first end comprising an outer circumference having a first diameter, said first section configured to engage the native annulus; and

a second section terminating in a second end, said second end comprising an outer circumference having a second diameter, said second section configured to extend past the coronary ostia and into the ascending aorta,

wherein the second circumference is greater than the first circumference.